



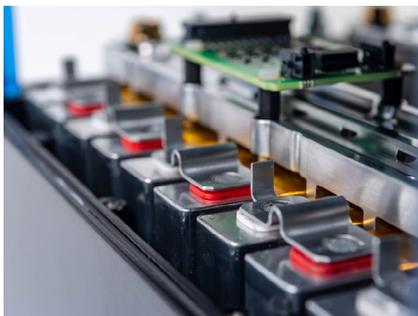
Prototype Assembly



Increase Flexibility

MAHLE Powertrain's highly skilled team are experienced in building prototype assemblies from V12 engines. The engine build facility is equipped with:

- 18 x build bays with computerised documentation / build records
- Ability to screen off build bays to provide confidential build areas
- Machining and fabrication support
- Instrumentation fitting for temperature, pressure, vibration & strain
- Hot test stands for integrity checking
- 3 stage component wash

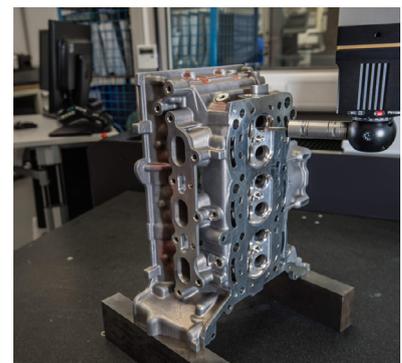


Electrical prototype build

Prototype Build - Vehicle

MAHLE Powertrain's mechanical and electrical build expertise combine to provide a highly skilled prototype vehicle assembly service, offering:

- 8 x build bays in a fully equipped confidential vehicle workshop
- Vehicle surface plate for measurement or BIW modification
- Full vehicle assembly from BIW or modification to existing vehicle
- Instrumentation & data logging equipment installation/ commissioning



Metrology



Save time
Reduce risk

Prototype Build - Electrical

MAHLE Powertrain's prototype electrical build capabilities have increased to cope with the demands of increasing powertrain electrification and can offer customers:

- Battery module assembly
- E-machine & battery instrumentation
- Harness manufacture
- E-machine assembly
- Battery module & e-machine end of line integrity testing



Attention to detail

Logistics and Metrology Services

MAHLE Powertrain has developed a Supplier Quality Assurance, Logistics & Metrology service that offers:

- SQA engineer support for supplier & deviation management
- Inward logistics for components using SAP
- Temperature controlled metrology area, traceable to UKAS standards
- 3D Laser scanning FARO arm
- Mitutoyo Scanning CMM
- Valvetrain component measurement, spring rates, camshaft profile etc.

